Abstract

Methods and systems are provided for testing and improving the performance of a speech recognition system. Words, phrases or utterances are assembled for recognition by one or more speech recognition engines. At a text-to-speech application, an audio pronunciation of each word, phrase or utterance is created. Each audio pronunciation is passed to one or more speech recognition engines. The speech recognition engine analyzes the audio pronunciations and derives one or more words, phrases or utterances from the audio pronunciations. A confidence score is assigned to each of the one or more words, phrases or utterances derived from the audio pronunciations. If the confidence score for any derived word, phrase or utterance is below an acceptable threshold, the results of the speech recognition engine for the word, phrase or utterance are passed to a developer to allow the developer to take corrective action with respect to the speech recognition engine.

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